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UNITED STATES DEPARTMENT OF COMMERCE
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July 2, 1997

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A FILING DATE UNDER 35 USC 111.

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By Authority of the COMMISSIONER OF PATENTS AND TRADEMARKS

N. WOODSON

Certifying Officer

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PREPARATION AND TRANSFER SHEET BACKGROUND OF THE INVENTION

The cutting surfaces available for example, in a typical household kitchen, have known deficiencies, all of which limit Plastic and wood their usefulness in food preparation. kitchen counter tops may be marred by preparing food on their surfaces. Ceramic counter top surfaces may dull the knife or Many surfaces utilized in a other utensil being utilized. kitchen have sufficient porosity so as to harbor bacteria. These include wooden cutting boards and certain of the rigid plastic transportable boards. A documented concern over the transport of bacteria, such as salmonella bacteria commonly found on chicken to other food subsequently processed on the cutting surface, has lead to recommendations ranging from disinfecting the surfaces to preparing the chicken only after The concern over bacterial other food has been prepared. contamination is especially difficult to resolve with fixed cutting surfaces, such as counter tops and chopping blocks. Even those portable cutting surfaces are not easily sterilized, and may not withstand the heat of dish washing. A requirement for sterilizing after use leads to the requirement of multiple portable devices for the preparation of a single meal.

After food is prepared by conventional techniques, it must be handled again to move it from the cutting surface to the container.

Various previous devices have been proposed to resolve the known deficiencies of cutting surfaces. These include cutting surfaces which are protected by disposable tear-off

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sheets, including thin plastic sheets that may be placed over conventional surfaces. However, known tear-off or cover sheets have not had sufficient strength to avoid perforation during food preparation, or to act as an effective transport for transferring the food after preparation to another container.

Hinged cutting surfaces, which may be flexed in order to provide a funneling effect for the transfer of prepared food articles to a container have been proposed. However, such devices are not easily cleaned because of the crevices formed by the hinging effect, are expensive and are limited to the formation of a crude trough, and will not conform to the shape of the container to which the food is to be transferred. Further, such prior products, when sufficiently thin to be flexed for transfer, do not have sufficient strength to resist perforation and for supporting the food articles when cantilevered from one end. Such known prior cutting surfaces may be formed from roll stock, which results in the finished reassuming a curved a bias toward product having configuration, which makes it difficult to maintain the sheet material in contact with the supporting surface as food articles are loaded onto the surface and during preparation.

Those articles having sufficient rigidity are often opaque or translucent, making it difficult to identify and confirm the cleanliness of the articles.

It is therefore desirable to have a flexible article handling sheet which lies flat on a supporting surface, and resists perforation during normal household cutting and chopping operations. Such an article is particularly desirable where it has sufficient cantilever beam strength to

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lift and transport a substantial quantity of prepared food articles from a sheet to a suitable container of varying shape.

SUMMARY OF THE INVENTION

In an exemplary embodiment of the invention, the deficiencies of the prior art devices are resolved by extruding a sheet amorphous polypropylene co-polymer and cutting the sheet to a size suitable for food preparation or other article handling. The advantages of the invention are particularly realized in a generally rectangular sheet greater than 10 inches in one dimension and six inches in the second dimension. Such a material is sufficiently hard to resist perforation and spalling, but has no substantial dulling effect upon most knives or other kitchen implements. In the exemplary embodiment, the thickness of the sheet is 15 approximately 0.010 inches, which results in a sheet that may be easily bent around its longitudinal centerline and held at one end by the user. The sheet has sufficient cantilever beam strength to support a substantial amount of food, or other articles, at the end of the sheet opposite the held end. When placed over the edge of a container, the sheet conforms to provide a substantial line of support. For example, when placed over the edge of a round bowl, the sheet will contact the upper edge of the round bowl over a substantial part of the circumference of the bowl, allowing the user to incline the sheet and to cause the food articles to slide under the influence of gravity into the container.

The extruded material lies flat and has a surface finish such as to be substantially transparent. Recipes or other materials are clearly visible and readable through the cutting

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surface of the sheet. The transparency and finish of the material results in a surface that does not retain food material after cleaning and the material selected will tolerate cleaning in a dishwasher with temperatures in excess of 180 degrees F.

These and other advantages of the invention will be more particularly realized by a reading of the following detailed description of the invention together with the drawings in which like reference numerals refer to like parts throughout and in which:

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of the cutting sheet showing its use in transferring prepared food materials to a suitable container.

Fig. 2 is a perspective view of the cutting sheet showing its use in cutting food articles.

Fig. 3 is a plan view of the cutting sheet.

Fig. 4 is an enlarged cross-sectional view taken on line 4-4 of Fig. 3 showing the partial penetration of the thickness of the sheet by a cutting implement.

DETAILED DESCRIPTION OF THE DRAWINGS

The sheet 10 is shown to be a generally rectangular planar sheet having width-wise edges 12 and 14 corresponding to a first dimension of the sheet and lengthwise edges 16 and 18 corresponding to the lengthwise or cantilever access of the sheet. In the preferred embodiment, the sheet is extruded flat with a width corresponding to the edges 12 and 14. However, it should be understood that the first dimension in other embodiments can be the lengthwise or cantilever dimension corresponding to the edges 16 or 18. When extruded

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with the width corresponding to the edges 12 and 14, the product is cut to length, and to create rounded corners 20. Extrusion produces a sheet which is smooth on both sides and which therefore may be reused by turning the product over to obtain a new and sanitary surface on which to work prior to cleansing. The density of the polypropylene is selected to result in a Rockwell hardness in excess of K72. hardnesses of K72 or less result in excessive spalling and perforations by cutting implements, and are prone to Products with discoloration referred to as blushing. excessive deformation have a very short useful lifetime and may have to be disposed of after each use. On products which are reused, it is difficult to determine if all of the food materials and bacteria have been removed because the heavily marked surface may not reveal what residual material may have been retained, even after washing.

Material having a Rockwell hardness up to 90 is suitable for the intended purpose without being sufficiently hard so as to dull knives and other cutting implements or sufficiently brittle to prevent adequate flexion for transfer of food.

It has been found that amorphous polypropylene co-polymer (alternatively known as 1-propene, polymer with ethene) with the following properties has the requisite clarity, toughness and chemical solvent and stress-cracking resistance:

- a softening point in excess of 126 degrees C.;
- a Rockwell hardness of 80 as determined by the ASTM Test Method D785;
- a melt-flow rate of 1.0 degrees Centigrade per minutes as determined by the ASTM Test Method 1238;

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a density of .900gm/CM as determined by the ASTM Test Method 1505.

- a tensile modulus of 150,000 psi as determined by ASTM Test Method D638; and
- a flexural modulus of 145,000 psi as determined by the ASTM Test Method 790.

Fig. 4 shows the penetration into the upper surface 22 of a knife blade 24. In order to prevent perforation during normal use of sharp implements through the lower surface 26, It is necessary to provide material of the type described with a thickness in the range of 0.008 inches to 0.030 inches. Although sheet thicknesses in excess of 0.030 inches would not be perforated by cutting, they cannot be flexed to transfer the food as hareinafter descried.

Fig. 2 shows the use of the sheet 10 on a counter top 28, a knife 30 with blade 24 is being utilized to slice a food article 32 (cwlery in this instance) into suitable size pieces After all of the food articles have been cut to the appropriate size, they are transferred to an appropriate container in the manner hereinafter described. However, for purposes of illustration, it is assumed that vegetables or other food articles being shown in Fig. 2 were prepared after chicken or other food articles had previously been prepared on the opposing surface 26. Fig. 1 shows the sheet 10 which has been flexed by being grasped by the user adjacent one end. A large piece of prepared chicken 36 is positioned with its center of mass closely proximate to the opposite end. illustrated, the sheet has a width of approximately 11 inches Therefore, the and a length of approximately 15 inches. weight of the chicken or other food article 36 is supported on

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a cantilever beam support formed by the flexion of the sheet. Weights in excess of five ounces can be supported in this manner at distances of 12 to 14 inches from the held end. Food articles so supported can be transported substantial distances (for example across the room) to a suitable container such as the bowl 18. When the sheet 10 is rested on the upper edge 40 of bowl 18, it has sufficient flexibility to product a substantial line of contact around the circumference of the bowl. This additional support allows the user to raise the held end of the sheet sufficient distance to cause the food articles to slide off of the sheet and into the bowl under the influence of gravity. Transfer of the material is facilitated by the finish of the material produced by the extrusion process.

Having described my invention, I now claim: I CLAIM:

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CLAIMS

- 1. A flexible article handling sheet comprising:
- a sheet of thin flexible resilient plastic material having sufficient cantilever beam strength when flexed around
- 4 the longitudinal centerline and held proximate a first end to support an article spaced at least 10 inches from and weighing
- 6 at least 5oz.;

said plastic material having a Rockwell hardness in

- excess of 72.
 - 2. The sheet of claim 1, wherein:
- 2 said plastic material is comprised of amorphous polypropylene co-polymer.
 - 3. The sheet of claim 1, wherein:
- 2 said plastic material is in excess of .008" in thickness and less than .030" in thickness and less than 4 .030".
 - 4. The sheet of claim 1, wherein:
- 2 said plastic material is transparent.
 - 5. The sheet of claim 1, wherein:
- 2 said material having a Rockwell hardness in the range of 75-90.
- A method of making a flexible article handling sheet
- 2 comprising:

extruding amorphous polypropylene co-polymer into

- 4 flat extruded stock having a width equal to or greater than a first dimension of the finished sheet;
- 5 said sheet having a thickness in the range of .78" to .030";

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- s cutting said extruded stock into finished sheets having a length equal to a second dimension, transverse to said first dimension of the finished sheet.
 - 7. The method of claim 6, wherein:
- 2 said amorphous polypropylene has a flexural modulus in the range of 75,000 to 200,000 psi.
 - 8. The method of claim 6, wherein:
- 2 said amorphous polypropylene has a Rockwell hardness in the range of 75-90.
 - 9. A flexible cutting sheet for food preparation, comprising:
- a sheet of plastic sheet material having a thickness
- of less than .030" and a flexural modulus in the range of 75,000 to 200,000 psi;
- said sheet having a Rockwell hardness in excess of
- 10. A flexible cutting sheet for food preparation
- 2 according to claim 9, wherein:
 - said sheet having a first dimension in excess of 6
- 4 inches and a second dimension, transverse to said first dimension, in excess of 10 inches.
 - 11. A flexible cutting sheet for food preparation
- 2 according to claim 10, wherein:
 - said sheet having a Rockwell hardness in the range
- 4 of 75-90.

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ABSTRACT

A thin polypropylene sheet is extruded flat, with a thickness in the range of .008 to .030 inches with a Rockwell halaness in excess of 72 and a flexural modulus in excess of 55,000 psi. The resultant surface may be utilized for cutting and chopping foods. A sharp knife will penetrate, but not perforate, the sheet material to not dull the knife while maintaining the integrity of the surface. When flexed around its longitudinal centerline, the sheet material develops substantial cantilever beam strength, so as to transport food articles after preparation into an appropriate container.

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AS SELON: NAMED INVENTOR, I HEREBY DECLARE THAT: This Declaration is of the following Type: Configuration		, , , , , , , , , , , , , , , , , , , ,				Atto	mm/s Ooch	m Mai: 535	3 7A01	
My restination of the address and critienship are as stated below next to my name. I believe I am the original first as ole inventor (if original address and critienship are as stated below next to my name. I believe I am the original first as ole inventor (if original first and joint inventor) (if application) was a mandred on my name or mandred in the process of the above the inventor or mandred in the specification of which. Value of the application of the application in accordance with Title 37, United States Code, Sec. 1996 and process involved a confidence or original first application in accordance with Title 37, United States Code, Sec. 1996 and process involved in materials to the above the state of the application of the application in accordance with Title 37, United States Code, Sec. 1996 and process involved in a confidence or original application of application in accordance with Title 37, United States Code, Sec. 1996 and process in the foreign and or application of the application of the application in accordance with Title 37, United States Code, Sec. 1996 and America field by me on the section of the application application (if designating at least one country order materials or any Princeton application application application and process or any Princeton application and process application and the application and the application and the application and the application in the breath application and the application and the application in the manner process application and the calmed states application in the manner process application. Country	•	COMBINED DEC	LARATION/PC	WERDFALLON	MEX ME THAT, The					
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I hereby claim the benefit under Title 35 USC 120 of the United States application(s) listed below, and insolar as the subjimanter of each of the claims of this application is not disclosed in the prior United States application in the manner proved by the first paragraph of Tale 35 USC 112, I acknowledge the duty to disclose material information as defined in Tale 37 Ct. 1.55(s) which occurred between the filing date of the prior application and the national or PCT international filing date of the application: (Series No.)						— —,	•		Neel	(No.
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I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the U Patent and Trademark Office connected therewith: Carl R. Brown, Reg. No. 18,587; Nell F. Martin, Reg. No. 22,088; John Haller, Reg. No. 27,795; James W. McClain, Reg. No. 24,538; Please direct all telephone calls to Ne 11 F. Martin all (619) 238-0999 (lacsimile: (619) 238-0062) and address all correspondence to Brown, Martin, Haller & McClain, 110 W., Street, 13th Floor, San Diego, California, 22101. I hereby doctare that all statements made herein of my own knowledge are true and that all statements made on informatic and boilof are holloved to be true; and further that these statements were made with the knowledge that willful false statement and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Co and that such willful false statements may jeopardize the validity of the application or any patent issued therefrom. **TOLL NAME OF SOLICH STERRA UNIT 46 SOLIANA REACH CALIFORNIA 92075 FULL NAME OF SCORD CONT SMERTON ANY STERRA UNIT 46 SOLIANA REACH CALIFORNIA 92075 FULL NAME OF SCORD CONT SMERTON ANY SMERTON SME		. 1.56(a) which occ	curred between	the filing date of the	he prior applica	stion and the n	alional of P	of external:	OF 180 180 7	å q a re or r
Patent and Trademark Office connected therewith: Can K. Brown, Neg. 163, 235. Haller, Reg. No. 27,795; James W. McClain, Reg. No. 24,536. Please direct all telephone calls to Ne 1 F. Martin at (619) 238-0999 (lacsimile: (619) 238-0062) and address all correspondence to Brown, Martin, Haller, & McClain, 110 W. Street, 13th Floor, San Diego, California, 22101. I hereby dectare that all statements made herein of my own knowledge are true and that all statements made on informatic and boliof are hollowed to be true, and further that these statements were made with the knowledge that willful false statement and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Co and that such willful false statements may jeopardize the validity of the application or any patent issued therefrom. **RODERICK THOMPSON** **SOLANA BEACH** CALIFORNIA** **SOLANA BEACH*** **SOLANA BEACH** **SOLAN		. 1.56(a) which occ	neewied benuc	the filing date of the	ne prior applica	SION SIO UN II	# ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	J. 110		g dale or t
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Applicant or Patentee Serial or Patent No	RODERICK TH	IONPSON	Affor	THEY	
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